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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/812,552	03/29/2004	Takashi Moriyama	CFA00069US	3398

7590 09/22/2006
Canon U.S.A. Inc.,
Intellectual Property Department
15975 Alton Parkway
Irvine, CA 92618-3731

EXAMINER

OSORIO, RICARDO

ART UNIT	PAPER NUMBER
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2629

DATE MAILED: 09/22/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/812,552	MORIYAMA, TAKASHI	
	Examiner	Art Unit	
	RICARDO L. OSORIO	2629	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 29 March 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-3,5-14 and 16-18 is/are rejected.
- 7) ☒ Claim(s) 4 and 15 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>6/23/04, & 7/14/2004</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

2. Claims 1-3, 5, 6, 10-14, and 16-18 are rejected under 35 U.S.C. 102(a) as being anticipated by Wong et al. (6,943,773).

Regarding claims 1 and 12, Wong teaches of an information device comprising a flexible display unit capable of displaying information having page information in units of pages (Fig. 1, character 20, and col. 3, lines 40-43); a detection unit configured to detect at least one of a bending direction, an amount of bending, and a duration that the display unit is bent (Fig. 4, reference character 130, col. 3, lines 40-56, col. 5, lines 9-24, and col. 6, lines 16-49); and a scroll determination unit configured to determine whether page scrolling has been input based on the detected at least one of the bending direction, the amount of bending, and the duration that the flexible display unit is bent, and for updating the information output on the display unit when it is determined that page scrolling has been input (col. 3, lines 50-60).

Regarding claims 2 and 13, Wong teaches that a speed at which the information is updated is based on the amount of bending (col. 3, lines 50-56).

Regarding claims 3 and 14, Wong teaches that the duration of the bending is a duration of time for which the amount of bending exceeds a predetermined value (col. 5, lines 22-25, col. 7, lines 50-52, and col. 8, lines 24-26).

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Regarding claims 5 and 16, Wong teaches that if the bending direction is opposite a predetermined direction, it is determined that the user input a reverse scroll request and the new page information is information occurring prior to the page information displayed on the flexible display unit (col. 6, lines 16-49, and col. 9, lines 4-22).

Regarding claim 6, Wong teaches that the detection unit is provided at each of two portions of the display unit (col. 6, lines 32-49, and col. 9, lines 15-22).

Regarding claims 10 and 17, Wong teaches that the flexible display unit displays information in a single-sided format (col. 6, lines 39-44).

Regarding claims 11 and 18, Wong teaches that the flexible display unit displays the information in a double-sided format (col. 8, line 59-col. 9, line 22).

Claim Rejections - 35 USC § 103

3. Claims 7-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wong.

Regarding claims 7-9, Wong does not specifically teach of the sensor being a piezoelectric polymer that is polyvinylidene fluoride.

However, Wong teaches that the sensor is being deflected (see col. 5, lines 15 and 16).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have the deflectable sensor of Wong made of polyvinylidene fluoride, or any other well known in the art of polymer sensors, since these sensors are commonly known to be highly flexible and practical for use in an environment such as the flexible display.

Allowable Subject Matter

4. Claims 4 and 15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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The following is a statement of reasons for the indication of allowable subject matter: Claims 4 and 15 are allowable since certain key features of the claimed invention are not taught or fairly suggested by the prior art. In claim 4, "it is determined that page scrolling has not been input when the bending direction is opposite a predetermined direction". In page 15, "if the bending direction is opposite a predetermined direction, it is determined that the user input is not a scroll request". The closest prior art, Wong (see rejection above) singularly or in combination fails to anticipate or render the above underlined limitations obvious.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ricardo L. Osorio whose telephone number is 571-272-7676. The examiner can normally be reached on Monday through Thursday from 7:00 A.M. to 5:30 P.M. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala whose telephone number is 571-272-7681.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231


or faxed to: 571-273-8300 (for Technology Center 2600 only)

Hand-delivered responses should be brought to the Customer Service Window at the Randolph Building, 401, Dulany Street, Alexandria, VA 22314.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Technology Division: 2629

RLO
September 15, 2006


RICARDO OSORIO
PRIMARY EXAMINER